Kennecott Minerals Con A Division of Kennecott Corporation

Utah Copper Division P.O. Box 6500 Salt Lake City, Utah 84106 801 263-6123

September 10, 1980



ACT/045/011

Kennecott

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Gentlemen:

Attached herewith are two each of the Notice of Intention to Commence Mining Operations and Mining and Reclamation Plan covering a proposed limestone quarrying operation by Kennecott in Mercur Canyon, Utah. Processing and approval of these documents pursuant to the State of Utah Mined Land Reclamation Act are requested to enable Kennecott's proceeding with a designated operation this year.

We suggest that surety provision for the reclamation work be covered by agreement. Please let me know if this is acceptable to the Board and any other matters as pertains to processing and approval of this application.

Yours very truly,

W. D. Southard

Engineering Services Manager

CFS/bja

MR FORM 1 *Page 1 of 3

MINING	APPLICATION
NO	

STATE OF STAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

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NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS
(See Rule M of General Rules and Regulations)

1.	Name of Applicant or Company Kennecott Corporation Kennecott Minerals Company, Utah Copper Division
2.	Corporation (X) Partnership () Individual () Address P. O. Box 6500, Salt Lake City, Utah 84106 Permanent Temporary
3.	Name and title of person representing company W. H. Jensen, General Manager
4.	Address Same Office Phone 263-6123
5.	Location of Operation Tooele Sec. 11 T. 6 S. R. 4 W. County
6.	Name of Mine Mercur Limestone
7.	Mineral to be mined: Mining method:
	() Coal () Flagstone Open-pit
	() Manganese () Shale
	() Iron Ore () Uranium () Phosphate () Gilsonite
	() Potash () Bituminous Sandstone
	() Fluorspar () Tungsten (X) Other (specify) Limestone
8.	Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein? (X) Yes (No If yes, list all approval numbers now under surety:
	#ACT-035-002
9.	Owner/Owners of record of the surface area within the land to be affected:
	U. S. Government, Bureau of Land Address
	Management Address
	Address
	Address

Kennecott Corporation	Address Same	[]
	Address	
	Address	COLLEGE CONTRACTOR OF THE PARTY
	Address	
Owner/Owners of record o affected:	f all other minerals within	any part of the land
N/A	Address	
	Address	
	Address	
Have the above owners be () Ye		
Source of Operator's leg to be covered by the Not	al right to enter and conduction of the conducti	ct operations on land
Approximate acreage to b	e disturbed:	
Approximate acreage to b A) Mining Operation (include operation)		acres -
A) Mining Operation	Area - 3.5 ns, storage, & disposal area	acres -
A) Mining Operation (include operation	Area - 3.5 ns, storage, & disposal area ulageway - 1.6	acres -
A) Mining Operation (include operation B) Access Road or Ha	Area - 3.5 ns, storage, & disposal area ulageway - 1.6	acres - a) acres
A) Mining Operation (include operation) B) Access Road or Ha C) Drainage System - TOTAL ACRES: Give the names and post	Area - 3.5 ns, storage, & disposal area ulageway - 1.6	acres acres acres acres acres rincipal Executive,
A) Mining Operation (include operation) B) Access Road or Ha C) Drainage System - TOTAL ACRES: Give the names and post	Area - 3.5 ns, storage, & disposal area ulageway - 1.6 5.1 office addresses of every preson performing a similar formula a similar formu	acres acres acres acres acres rincipal Executive, unction) of Applicant: Address:
A) Mining Operation (include operation) B) Access Road or Haccess Road or Hacces Total Acres: Give the names and post Officer, Partner, (or periods)	Area - 3.5 ns, storage, & disposal area ulageway - 1.6 5.1 office addresses of every pr rson performing a similar for Title: General Manager	acres acres acres acres acres rincipal Executive, unction) of Applicant: Address: P. O. Box 6500
A) Mining Operation (include operation) B) Access Road or Ha C) Drainage System - TOTAL ACRES: Give the names and post Officer, Partner, (or performance) Name: a. W. H. Jensen	Area - 3.5 ns, storage, & disposal area ulageway - 1.6 5.1 office addresses of every preson performing a similar formula a similar formu	acres acres acres acres acres rincipal Executive, unction) of Applicant: Address:
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A) Mining Operation (include operation) B) Access Road or Haccess Road or Hacces Road or Hacces: TOTAL ACRES: Give the names and post Officer, Partner, (or per Name: a. W. H. Jensen b. I. G. Pickering c. G. F. Joklik	Area - 3.5 ns, storage, & disposal area ulageway - 1.6 5.1 office addresses of every pr rson performing a similar for Title: General Manager Utah Copper Division Senior Vice President Kennecott Minerals Co. President	acres rincipal Executive, anction) of Applicant: Address: P. O. Box 6500 Salt Lake City, Utah 84 P. O. Box 11248 Salt Lake City, Utah 84 P. O. Box 11248
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If yes, explain:

STATE OF Utah
COUNTY OF Salt Lake
I, W. H. Jensen , having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.
Signed: W. H. Jensen, General Manager Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 11 day of September, 1980.
Notary Public: Keith S. Hansen
My Commission Expires: November 2,1983
PLEASE NOTE:
Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows:
"Information relating to the location, size, or nature of the deposit and marked confidential by the operator, shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section 40-8-21."
Is confidential information contained herein?
YES(Initial)
NO X (Initial)
Sections desired to be maintained as confidential information -

MINING	APPLICATION
NO.	

Date

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN
(Other forms may be used in lieu of MR 2, provided they contain the same information)

	they contain the Same Information;
1.	Name of Applicant or Company Kennecott Minerals Company, Utah Copper Division
2.	Proposed type of operation Open-pit Mining of Limestone
3.	(a) Prior Land Use(s) Some prospecting for minerals - livestock grazing
	(b) Current Land Use(s) Limited grazing of livestock
	(c) Possible or Prospective Future Land Use(s) Same as (a)
4.	What vegetation exists on the land proposed to be affected <u>Typical basin</u>
	and range grasses and pinion-juniper vegetation. (a) Types and Estimated Percent cover or density: Approx. 5% cover consisting
	of typical basin and range grasses and pinion-juniper vegetation
5.	What is the pH range of soil before mining? 5.6 to 7.5 pH Name of Person or Agency and method of determining pH Kennecott laboratory technicians by mixing 100 gm of soil and 100 ml distilled water
6.	Site elevation above sea level 6000 to 6300
7.	In case of coal, oil shale, and bituminous sandstone:
	Principal seam(s) and thickness(es) None evident
8.	Estimated duration of mining operations one (1) year to mine 10,000 tons
9.	Has overburden, waste or rejected materials been classified as acid or alkali producing? (X) Yes () No Does the above material being moved have any other characteristics affecting revegetation? No
10.	Will any underground workings or aquifers be encountered? () Yes (X) No Describe
	Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (x) No If yes, describe the quality of water being discharged.

, age	2 01	
11.	Desc (a) (b)	The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the
	(c)	proposed road grades. The procedure for site preparation including removing trees and brush.
	(d)	The method for removing and stockpiling topsoil or disturbed materials.
	(e)	The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
	(f)	A procedure for final stabilization of disturbed materials.
		GRADING AND REGRADING
Spec	cifica	ally describe: (See attached narrative)
	(a) (b) (c) (d) (e)	Typical cross-section of regrading. The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material. What type of soil treatment will be utilized. The method of drainage control for the final regraded area. Maximum grading slope.
		TESTING
1.	The of the Description	ribe method for testing stability of reclamation fill material. stability of the soil material will not be a problem. No testing the stability of reclamation fill material is necessary. ribe method for the testing of soil that is intended to support ration. The reseeding will occur as the soil is deposited on the slopes to take advantage of the loose nature of the fill.
2.	Descr	ribe any soil treatment employed as an aid to revegetation
	A co	ommercial fertilizer (16-16-8) will be used on reclamation sites.
3.	Descr	ribe surface preparation of areas intended to support vegetation:
	A11	areas smooth enough to work will be contoured with a small dozer.
	The	grain drill will apply seed mix at a rate of 20 lbs/acre.
		REVEGETATION
1.	Reveg (x) () () ()	Operator () Hydroseeding Soil Conservation District () Aerial Seeding Private Contractor (X) Conventional or Rangeland Drilli Other (specify) (X) Broadcast

Mining Plan

The sequence of mining will be initiated by constructing two short access roads. One road will extend approximately 400 feet from Swensen Gulch westward to the intended soil stockpile. The other road will extend approximately 300 feet eastward to the quarry site and will replace the steep access road connecting Swensen Gulch with the ridge crest.

The 10,000 tons of material will involve removing approximately 244,000 cubic yards of soil and limestone from the 6,260-foot elevation down to the 6,170-foot elevation. Before mining commences, shrubs and brush will be removed from the quarry site.

The access will be via Swensen Gulch. The access road from Swensen Gulch to the ridge will be lowered on the south end to match the elevation of the quarry operation. On the north end, the road will pivot about a point near N 10,808 and E 10,529.

Culverts will be placed wherever an access road would tend to dam an established drainage channel. In addition, a levee will be maintained on the west side of the quarry to prevent draining down Swensen Gulch from entering the quarry or mixing with the Pesthouse Canyon drainage.

Grades on roads will be established at no greater than 10% if possible.

Grading and Regrading

No attempt will be made to grade the slopes. The area is typified by ledges and it is felt that placing one to three feet of top soil on the mine benches will produce an environment much like the one now in existence. The soil will be placed by front-end loader on the periphery of a bench before the next lower bench is excavated. The final stepped slope on the north side will be from 30° to 40°. On the south side, the stepped slope will be near 45°. No soil treatment should be required since the natural soil will be replaced essentially unaltered. The step configuration of the slope should also retard water erosion and prevent ponding. The lower portion of the quarry will be back filled with undersize limestone prior to covering with soil. This procedure should provide good drainage and prevent ponding at the same time.

, 2.	Will Mulch be u Type:	sed? () decay of plant	Yes (X) N tissues for humus Rate/Acre	No. Start cycl	e of growth	
3.	Revegetation P1		e -			
	Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted	
	Medicago sativa				Fall	
	Melilotus officinalis	Seed Mix			u .	
	Agropyron elongatum	20 lbs/acre			n e	
	Secale cereale				"	
Tube packed	Chyrsothamnus nauseosus	As needed				
	Atriplex canes	eens		•		
4.	Will affected area be subject to livestock or wildlife grazing?					
	(X) Yes () No Will vegetation protection be needed? Low wild					
	population and small size of the area do not make protection necessary.					
5.	Will irrigation be used: () Yes (X) No Type					
6.	Describe maintenance procedures for revegetation if needed, until surety release is granted. Foliage development will be monitored up to three years					
	after cessation of mining and reseeding will be done until desired results					
	are obtained.					



STATE OF UTAH
COUNTY OF SALT LAKE
I, W. H. Jensen , having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
Signed: W. H. Jensen, General Manager Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 11 day of September, 1980.
Notary Public: Keith & Hansen
My Commission Expires: November 2, 1983
PLEASE NOTE:
PLEASE NOTE: Section 40-8-13(2) of the Mined Land Reclamation Act provides follows:
Section 40-8-13(2) of the Mined Land Reclamation Act provides as
Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows: "Information relating to the location, size, or nature of the deposit and marked confidential by the operator shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section
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Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows: "Information relating to the location, size, or nature of the deposit and marked confidential by the operator shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section 40-8-21." Is confidential information contained herein?
Section 40-8-13(2) of the Mined Land Reclamation Act provides as follows: "Information relating to the location, size, or nature of the deposit and marked confidential by the operator shall be protected as confidential information by the Board and the Division and not be a matter of public record in the absence of a written release from the operator, or until the mining operation has been terminated as provided in subsection (2) of section 40-8-21." Is confidential information contained herein? YES(Initial)

MR FORM 1

MINING	APPLICATION
NO.	
Date	

STATE OF STAIL DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING 1588 West North Temple Salt Lake City, Utah 84116

NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS (See Rule M of General Rules and Regulations)

1.	Name of Applicant or Company Corporation (X) Kennecott Corporation Kennecott Minerals Company, Utah Copper Division Individual ()
3.4.	Address P. O. Box 6500, Salt Lake City, Utah 84106 Permanent Temporary Name and title of person representing company W. H. Jensen, General Manager Address Same Office Phone 263-6123
	Location of Operation Tooele Sec. 11 T. 6 S. R. 4 W. County
 7. 	Mineral to be mined: () Coal () Flagstone () Copper () Gravel () Manganese () Shale () Iron Ore () Uranium () Phosphate () Gilsonite () Potash () Bituminous Sandstone () Fluorspar (X) Other (specify) Limestone Mining method: Open-pit () Open-pit () Tungstone
8.	Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein? (x) Yes (y) Yes (y) No If yes, list all approval numbers now under surety:
9.	Owner/Owners of record of the surface area within the land to be affected:
	U. S. Government, Bureau of Land Address
	Management Address
	Address
	Address

	Address Same	(2)
	Address	1121111
	Address	
	Address	
Owner/Owners of record of affected:	all other minerals within a	any part of the land
N/A	Address	
	Address	
	Address	
Have the above owners bee	그리 하게 많은 아이들의 하는 점이 나타가 지나를 하지 않아 있다면 하는 사람이 모든 사람이 되었다면 하지 않는 것이다.	
	al right to enter and conduct ce <u>Unpatented Mining Claim</u>	
Approximate acreage to be	disturbed:	
A) Mining Operation A (include operation	area - 3.5 as, storage, & disposal area)	acres -
B) Access Road or Hau	alageway - 1.6	acres
C) Drainage System -		acres
TOTAL ACRES:		
	office addresses of every princes of performing a similar fun	
	Title:	Address:
Officer, Partner, (or per Name:	General Manager	P. O. Box 6500
Officer, Partner, (or per Name:		P. O. Box 6500 Salt Lake City, Utah P. O. Box 11248
Officer, Partner, (or per Name:	General Manager Utah Copper Division Senior Vice President Kennecott Minerals Co.	P. O. Box 6500 Salt Lake City, Utah P. O. Box 11248 Salt Lake City, Utah
Officer, Partner, (or per Name: a. W. H. Jensen b. I. G. Pickering	General Manager Utah Copper Division Senior Vice President	P. O. Box 6500 Salt Lake City, Utah P. O. Box 11248
Officer, Partner, (or per Name: a. W. H. Jensen b. I. G. Pickering	General Manager Utah Copper Division Senior Vice President Kennecott Minerals Co. President	P. O. Box 6500 Salt Lake City, Utah P. O. Box 11248 Salt Lake City, Utah P. O. Box 11248
Officer, Partner, (or per Name: a. W. H. Jensen b. I. G. Pickering c. G. F. Joklik d.	General Manager Utah Copper Division Senior Vice President Kennecott Minerals Co. President	P. O. Box 6500 Salt Lake City, Utah P. O. Box 11248 Salt Lake City, Utah P. O. Box 11248 Salt Lake City, Utah

If yes, explain:

STATE OF UTAH
COUNTY OF SALT LAKE
I, W. H. Jensen , having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.
Signed:
W. H. Jensen, General Manager Taken, subscribed and sworn to before me the undersigned authority
in my said county, this II day of September, 1980.
Notary Public: Leith S. Hansen
My Commission Expires: November 2, 1983
THE PARTY OF THE P
PLEASE NOTE:
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Is confidential information contained herein?
YES(Initial)
NO X (Initial)
Sections desired to be maintained as confidential information -

MINING	APPLICATION
NO	
Date	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN
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4.	What vegetation exists on the land proposed to be affected Typical basin
	and range grasses and pinion-juniper vegetation.
	(a) Types and Estimated Percent cover or density: Approx. 5% cover consisting
	of typical basin and range grasses and pinion-juniper vegetation
5.	What is the pH range of soil before mining? 5.6 to 7.5 pH
i en	Name of Person or Agency and method of determining pH Kennecott laboratory
	technicians by mixing 100 gm of soil and 100 ml distilled water
6.	Site elevation above sea level 6000 to 6300
7.	In case of coal, oil shale, and bituminous sandstone:
	Principal seam(s) and thickness(es) None evident
8.	Estimated duration of mining operations one (1) year to mine 10,000 tons
9.	Has overburden, waste or rejected materials been classified as acid or alkali producing? (X) Yes () No Does the above material being moved have any other characteristics affecting revegetation? No
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	Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (x) No If yes, describe the quality of water being discharged.

age 2 c	f 4
1. Des (a) (b) (c) (d) (e)	The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades. The procedure for site preparation including removing trees and brush. The method for removing and stockpiling topsoil or disturbed materials. The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
	GRADING AND REGRADING
pecific	ally describe: (See attached narrative)
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	TESTING
The of Desc	ribe method for testing stability of reclamation fill material. e stability of the soil material will not be a problem. No testing the stability of reclamation fill material is necessary. ribe method for the testing of soil that is intended to support tation The reseeding will occur as the soil is deposited on the slopes to take advantage of the loose nature of the fill.
. Desc	ribe any soil treatment employed as an aid to revegetation
_A 0	commercial fertilizer (16-16-8) will be used on reclamation sites.
	ribe surface preparation of areas intended to support vegetation:
_A11	areas smooth enough to work will be contoured with a small dozer.
The	grain drill will apply seed mix at a rate of 20 lbs/acre.
	REVEGETATION
(x (getation to be completed by:) Operator) Soil Conservation District) Private Contractor) Other (specify) (x) Broadcast

() Other _____

Mining Plan

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	3.	Revegetation P1	an and Schedul	le -		THE RESERVE OF THE PERSON OF T
		Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted
		Medicago sativa				Fall
		Melilotus officinalis	Seed Mix			u d
		Agropyron elongatum	20 lbs/acre			n e
		Secale cereale				н
Tuhe n	acked	Chyrsothamnus	As needed			
rube p	1	Atriplex canes		e Alane.		
Tabe p		Atriplex canes Will affected as (X) Yes (rea be subject) No Will v	to livestock or wegetation protection the area do not m	on be needed	? Low wildlife
Tabe p		Atriplex canes Will affected a (X) Yes (population and	rea be subject) No Will v small size of	to livestock or w	on be needed	? Low wildlife
Tape p	5. 6.	Atriplex canes Will affected a (X) Yes (population and Will irrigation	nea be subject No Will v small size of be used: (to livestock or w regetation protecti the area do not m	on be needed ake protection prote	Low wildlife on necessary.
Tabe p	5. 6.	Atriplex canes Will affected a (X) Yes (population and Will irrigation Describe maintenerelease is grant	nea be subject No Will v small size of be used: (nance procedur ted. Foliage	to livestock or we regetation protection the area do not me. Yes (X) No Types for revegetation	on be needed ake protection pe n if needed, e monitored to	Low wildlife on necessary. until surety up to three years



STATE OF UTAH
COUNTY OF SALT LAKE
I, W. H. Jensen , having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.
W. H. Jensen, General Manager
Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 11 day of September, 1980.
Notary Public: Feith S. Hansen
My Commission Expires: November 2, 1983
PLEASE NOTE:
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Is confidential information contained herein?
YES(Initial)
NO X (Initial)
Sections desired to be maintained as confidential information -